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<input type="checkbox"/>	L48	L47 and ((database\$ or (data adj1 base\$)) same (column\$ or rows\$))	65
<input type="checkbox"/>	L47	L46 and ((modif\$ or chang\$ or transform\$ or updat\$) near (database\$ or (data adj1 base\$)))	89
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<input type="checkbox"/>	L36	L35 and l33	0
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<input type="checkbox"/>	L25	(mask\$ near column\$)	764
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<input type="checkbox"/>	L8	(column near mask\$)	533
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1 [Cryptography and data security](#)

Dorothy Elizabeth Robling Denning
January 1982 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.

Full text available: pdf(19.47 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

From the Preface (See Front Matter for full Preface)

Electronic computers have evolved from exiguous experimental enterprises in the 1940s to prolific practical data processing systems in the 1980s. As we have come to rely on these systems to process and store data, we have also come to wonder about their ability to protect valuable data.

Data security is the science and study of methods of protecting data in computer and communication systems from unauthorized disclosure ...

2 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available: pdf(4.21 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

3 [The relational model for database management: version 2](#)

E. F. Codd

January 1990 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.

Full text available: pdf(28.61 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

101 763,583

From the Preface (See Front Matter for full Preface)


An important adjunct to precision is a sound theoretical foundation. The relational model is solidly based on two parts of mathematics: firstorder predicate logic and the theory of relations. This book, however, does not dwell on the theoretical foundations, but rather on all the features of the relational model that I now perceive as important for database users, and therefore for DBMS vendors. My perceptions result from 20 y ...

4 Research session: architectural issues: C-store: a column-oriented DBMS

Mike Stonebraker, Daniel J. Abadi, Adam Batkin, Xuedong Chen, Mitch Cherniack, Miguel Ferreira, Edmond Lau, Amerson Lin, Sam Madden, Elizabeth O'Neil, Pat O'Neil, Alex Rasin, Nga Tran, Stan Zdonik

August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**

Publisher: VLDB Endowment

Full text available:  [pdf\(210.85 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents the design of a read-optimized relational DBMS that contrasts sharply with most current systems, which are write-optimized. Among the many differences in its design are: storage of data by column rather than by row, careful coding and packing of objects into storage including main memory during query processing, storing an overlapping collection of column-oriented projections, rather than the current fare of tables and indexes, a non-traditional implementation of transactions ...

5 Real-time shading



Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available:  [pdf\(7.39 MB\)](#)

Additional Information: [full citation](#), [abstract](#)


Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or by combining the effects of tens to hundreds of rendering passes. Today, almost every new computer comes with graphics hardware capable of interactively executing shaders of thousands to tens of thousands of instructions. This course has been redesigned to address today's real-time shading capabilities ...

6 MIL primitives for querying a fragmented world

Peter A. Boncz, Martin L. Kersten

October 1999 **The VLDB Journal – The International Journal on Very Large Data Bases**, Volume 8 Issue 2

Publisher: Springer-Verlag New York, Inc.

Full text available:  [pdf\(261.36 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

In query-intensive database application areas, like decision support and data mining, systems that use vertical fragmentation have a significant performance advantage. In order to support relational or object oriented applications on top of such a fragmented data model, a flexible yet powerful intermediate language is needed. This problem has been successfully tackled in Monet, a modern extensible database kernel developed by our group. We focus on the design choices made in the Monet interpreter ...

Keywords: Database systems, Main-memory techniques, Query languages, Query optimization, Vertical fragmentation

7 Writing efficient programs

Jon Louis Bentley
January 1982 Book

Publisher: Prentice-Hall, Inc.

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

The primary task of software engineers is the cost-effective development of maintainable and useful software. There are many secondary problems lurking in that definition. One such problem arises from the term "useful": to be useful in the application at hand, software must often be efficient (that is, use little time or space). The problem we will consider in this book is building efficient software systems.

There are a number of levels at which we may confront the problem of efficien ...

8 DB systems topics: A framework for enforcing application policies in database systems

Lin Qiao, Basuki Soetarman, Gene Fuh, Adarsh Pannu, Baoqiu Cui, Thomas Beavin, William Kyu

June 2007 **Proceedings of the 2007 ACM SIGMOD international conference on Management of data SIGMOD '07**

Publisher: ACM Press

Full text available:  [pdf\(254.05 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As database systems have grown in terms of scale and complexity, administration tasks have become increasingly difficult and time consuming. A scarcity of skilled database professionals has meant that human costs have begun to dominate the total cost of ownership (TCO) of a database system. Database vendors are under immense pressure to provide solutions that make their products easy to administer in areas such as problem diagnostics, monitoring, query tuning, access control and system config ...


Keywords: database system, policy, self-managing

9 Access control for large collections

H. M. Gladney

April 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(482.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Efforts to place vast information resources at the fingertips of each individual in large user populations must be balanced by commensurate attention to information protection. For distributed systems with less-structured tasks, more-diversified information, and a heterogeneous user set, the computing system must administer enterprise-chosen access control policies. One kind of resource is a digital library that emulates massive collections of paper and other physical media for clerical, en ...

Keywords: access control, digital library, document, electronic library, information security

10 Special issue: AI in engineering

D. Sriram, R. Joobani

April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press

Full text available:  [pdf\(8.79 MB\)](#) Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

11 Special issue: Game-playing programs: theory and practice



M. A. Bramer

April 1982 **ACM SIGART Bulletin**, Issue 80

Publisher: ACM Press

Full text available: pdf(9.23 MB) Additional Information: [full citation](#), [abstract](#)

This collection of articles has been brought together to provide SIGART members with an overview of Artificial Intelligence approaches to constructing game-playing programs. Papers on both theory and practice are included.

12 Office-by-example: an integrated office system and database manager



Kyu-Young Whang, Art Ammann, Anthony Bolmarcich, Maria Hanrahan, Guy Hochgesang, Kuan-Tsae Huang, Al Khorasani, Ravi Krishnamurthy, Gary Sockut, Paula Sweeney, Vance Waddle, Moshé Zloof

October 1987 **ACM Transactions on Information Systems (TOIS)**, Volume 5 Issue 4

Publisher: ACM Press

Full text available: pdf(2.86 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Office-by-Example (OBE) is an integrated office information system that has been under development at IBM Research. OBE, an extension of Query-by-Example, supports various office features such as database tables, word processing, electronic mail, graphics, images, and so forth. These seemingly heterogeneous features are integrated through a language feature called example elements. Applications involving example elements are processed by the database manager, an integrated ...

13 A secure and private system for subscription-based remote services



Pino Persiano, Ivan Visconti

November 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Issue 4

Publisher: ACM Press

Full text available: pdf(241.65 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we study privacy issues regarding the use of the SSL/TLS protocol and X.509 certificates. Our main attention is placed on subscription-based remote services (e.g., subscription to newspapers and databases) where the service manager charges a flat fee for a period of time independent of the actual number of times the service is requested. We start by pointing out that restricting the access to such services by using X.509 certificates and the SSL/TLS protocol, while preserving the in ...

Keywords: Access control, anonymity, cryptographic algorithms and protocols, privacy, world-wide web

14 GPGPU: general purpose computation on graphics hardware



David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: pdf(63.03 MB) Additional Information: [full citation](#), [abstract](#), [citations](#)

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

15 Exploiting perception in high-fidelity virtual environments: Exploiting perception in high-fidelity virtual environments



Additional presentations from the 24th course are available on the citation page

Mashhuda Glencross, Alan G. Chalmers, Ming C. Lin, Miguel A. Otaduy, Diego Gutierrez
July 2006 **ACM SIGGRAPH 2006 Courses SIGGRAPH '06**

Publisher: ACM Press

Full text available: pdf(5.07 MB) mov(68:6 MIN) Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

The objective of this course is to provide an introduction to the issues that must be considered when building high-fidelity 3D engaging shared virtual environments. The principles of human perception guide important development of algorithms and techniques in collaboration, graphical, auditory, and haptic rendering. We aim to show how human perception is exploited to achieve realism in high fidelity environments within the constraints of available finite computational resources. In this course w ...

Keywords: collaborative environments, haptics, high-fidelity rendering, human-computer interaction, multi-user, networked applications, perception, virtual reality

16 Proceedings of the SIGNUM conference on the programming environment for development of numerical software



March 1979 **ACM SIGNUM Newsletter**, Volume 14 Issue 1

Publisher: ACM Press

Full text available: pdf(5.02 MB) Additional Information: [full citation](#)

17 Evaluation of two relational database management systems: UNIFY and iDB



Lindsay McDermid
May 1986 **ACM SIGSMALL/PC Notes**, Volume 12 Issue 2

Publisher: ACM Press

Full text available: pdf(3.41 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The following document is an evaluation and comparison of two relational database management systems: UNIFY and iDB. UNIFY Release 3.1 runs on the NCR Tower iDB runs a version of Mistress under iDIS Release 1.6 on the Intel 310.

18 Anatomy of LISP

John Allen
January 1978 Book

Publisher: McGraw-Hill, Inc.

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

This text is nominally about LISP and data structures. However, in the process it covers much broader areas of computer science. The author has long felt that the beginning student of computer science has been getting 'a distorted and disjointed picture of the field. In some ways this confusion is natural; the field has been growing at such a rapid

rate that few are prepared to be judged experts in all areas of the discipline. The current alternative seems to be to give a few introductory cou ...

19 C and tcc: a language and compiler for dynamic code generation



Massimiliano Poletto, Wilson C. Hsieh, Dawson R. Engler, M. Frans Kaashoek

March 1999 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 21 Issue 2

Publisher: ACM Press

Full text available: pdf(471.68 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Dynamic code generation allows programmers to use run-time information in order to achieve performance and expressiveness superior to those of static code. The 'C(Tick C) language is a superset of ANSI C that supports efficient and high-level use of dynamic code generation. 'C provides dynamic code generation at the level of C expressions and statements and supports the composition of dynamic code at run time. These features enable programmers to add dynamic code generation ...

Keywords: ANSI C, compilers, dynamic code generation, dynamic code optimization

20 Automated assistance for program restructuring



William G. Griswold, David Notkin

July 1993 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,

Volume 2 Issue 3

Publisher: ACM Press

Full text available: pdf(2.87 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Maintenance tends to degrade the structure of software, ultimately making maintenance more costly. At times, then, it is worthwhile to manipulate the structure of a system to make changes easier. However, manual restructuring is an error-prone and expensive activity. By separating structural manipulations from other maintenance activities, the semantics of a system can be held constant by a tool, assuring that no errors are introduced by restructuring. To allow the maintenance team to focus ...

Keywords: CASE, flow analysis, meaning-preserving transformations, software engineering, software evolution, software maintenance, software restructuring, source-level restructuring

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0007314858 20070101.

TitleA view with **mask** for cell-level data access control.**Conference information**Proceedings of the IASTED International Conference Applied Informatics. International Symposium on Software Engineering, **Databases**, and Applications, Innsbruck, Austria, 18-21 Feb. 2002.

Sponsor(s): IASTED.

SourceProceedings of the IASTED International Conference Applied Informatics International Symposium on Software Engineering, **Databases**, and Applications, 2001, p. 465-72, 5 refs, pp. iv+526, ISBN: 0-88986-322-9.

Publisher: ACTA Press, Anaheim, CA, USA.

Author(s)

Fujiwara-S.

Editor(s): [Hamza-M-H.](#)**Author affiliation**

Fujiwara, S., Central Res. Lab., Hitachi Ltd., Tokyo, Japan.

Abstract

Fine-grain data access control has become a critical issue for information systems. For example, a healthcare information system must strictly protect patient information, e.g., a physician should not see patients' private information except for his/her own patients. However, he/she may need to have statistical information, such as average length of stay or typical clinical pathway for each diagnosis in order to improve the quality of service for all patients. Current **database** systems employ a data access control using a view definition that does not provide cell-level data access control for ad-hoc queries. Since the view definition will be applied before executing queries, an ad-hoc query having aggregation on access-controlled **columns** will give different results for each user. We propose an extension of the view, called a view with **mask**, where we can define a **mask** condition and a value for each **column** that will be applied to the result of query execution. We also provide query rewrite algorithms to implement a view with **mask**. A view with **mask** can keep a security level, called inference-free against coloring. If a relation is inference-free against coloring, then the result of a query is also inference-free against coloring.

Descriptors

~~✓~~ AUTHORISATION; ~~✓~~ DATA-PRIVACY; ~~✓~~ DATABASE-MANAGEMENT-SYSTEMS; ~~✓~~ QUERY-PROCESSING; ~~✓~~ REWRITING-SYSTEMS.

Classification codes

C6130S Data-security*;
C6160 Database-management-systems-DBMS;
C0310D Computer-installation-management.

Keywords

cell-level-data-access-control; fine-grain-data-access-control; healthcare-information-system; patient-information-protection; physician; privacy-information; statistical-information; clinical-pathway; quality-of-service; **database-systems**; data-access-control; view-definition; ad-hoc-queries; **access-controlled-columns**; **mask**- condition; query-execution; query-rewrite-algorithms; security-level; inference-free-against-coloring; **database-security**; privacy-control; query-rewrite.

Treatment codes

P Practical.

Language

English.

Publication type

Conference-paper.

Publication year

2001.

Publication date

20010000.

Edition

2002026.

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0003818426 20070101.

Title

Display screen interface for **database**.

Source

Rechentechnik Datenverarbeitung, {Rechentech-Datenverarb-Germany}, Oct. 1990, vol. 27, no. 10, p. 28-30, 0 refs, CODEN: RTDVAQ, ISSN: 0300-3450, Germany.

Author(s)

Junk-P.

Abstract

The article describes the mode of operation of a universal display screen interface program intended to supplement the interface program of a **database** system and an example of use is given. Features of the program include **table** masks and realisation in programming language C for the relational system WEGA-DATA on P8000 computers. The program generates a tabular display which can be line-wise altered, enlarged and erased, and a picture **mask** file stores **table** head layout, and selection and position of data fields. Generation, operation and function aspects are discussed. The interface is considered to be an efficient supplement to the **database** system.

Descriptors

~~✓~~ RELATIONAL-DATABASES; ~~✓~~ USER-INTERFACES.

Classification codes

C6160D Relational-databases*;

C6180 User-interfaces.

Keywords

display-screen-interface; **database-system; table-masks;** C; relational-system; WEGA-DATA;
P8000-computers; **table-head-layout;** data-fields.

Treatment codes

P Practical.

Language

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Publication type

Journal-paper.

Publication year

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